

PLAN OF OPERATIONS  
FOR MINING ACTIVITIES  
ON NATIONAL FOREST LANDS

Submitted by Jack P Grover PRESIDENT 29 JUNE 1992  
Signature Title Date

Plan Received by Bill Wright Forester 7/2/92  
Signature Title Date

## I. GENERAL INFORMATION

- A. Name of Mine/Project LOD AKA - M.M. #0-32 UMC-249704-249736
- B. Type of Operation M.M. # 33 K-38K UMC-249737-249742  
LODE/PLACER QUARRY - PRODUCTION  
(lode, placer, mill, exploration, development, production, other)
- C. Is this a (new/continuing) operation? (CIRCLE ONE)  
If continuing a previous operation, this plan (replaces/modifies) a previous plan of operation. (CIRCLE ONE)
- D. Proposed start-up date of operation 10 JULY 1992
- E. Proposed duration of operations CONTINUOUS
- F. Proposed seasonal reclamation close-out date WINTER WEATHER

## II. PRINCIPALS

- A. Name, address and phone number of operator INSUL-LITE, INC ON LEASE FROM AG HOLD  
WHICH PURCHASED FROM DTM MINERS INC / OWNERS - JACK P GROVER  
1364 GILMER DRIVE, SALT LAKE CITY, UTAH 84101 801-5830269
- B. Name, address, and phone number of authorized field representative (if other than the operator). Attach authorization to act on behalf of operator.  
DON JOHANSEN - LEHI - UTAH - (801) 768-4730  
TIM CHADWICK LEHI - UTAH H- 801-756-6442 O- 801-768-4445
- C. List the owners of the claims (if other than the operator)  
DTM MINERALS INC / OWNERS -

(If more space is needed to fill out a block of information, use additional sheets and attach to form.)



- D. List name and address of any other lessees, assigns, agents, etc. and briefly describe their involvement with the operation, if applicable:

NONE

### III. PROPERTY OR AREA

Name of claim and the legal land description where the operation will be conducted.

MMC #	Name	Section	Township	Range
UMC 249704-249736	AKA LOP		25+26S	R4W-4 1/2 W SLB
UMC 249737-249742	AKA LOP		25S	R4W SLB
			25S 26S	R4 1/2 W SLB
(T-25S R-4W SEC 30 SW 1/4)			25S	R4W SLB
			25S	R4 1/2 W SLB

### IV. DESCRIPTION OF THE OPERATION

- A. **Access.** Show on a map (USGS quadrangle map or a National Forest map, for example) the claim boundaries and describe and show on the map all access needs, on and off the claim. Specify what Forest Service existing roads will be used, where maintenance or reconstruction is proposed and where any new construction is necessary. For new construction, include construction specifications such as widths, grades, etc. Show location and size of culverts. Describe maintenance plans. Describe the type and sizes of vehicles and equipment that will be traveling the access routes.

- B. **Attach map, sketch or drawing** showing location and layout of the area of operation. Include names and locations of any streams, creeks, and springs. Describe and explain on the map the type of operation, method or techniques you propose (examples: drilling, open pit mining, dredging, milling, etc.; include locations, capacity, size, amount, etc.). Show on the map and describe below the size and kind of all surface disturbance, such as trenches, pits, settling ponds, stream channels and run-off diversions, waste dumps, drill pads, timber disposal or clearance, etc. Include sizes, capacities, acreage, amounts, locations, materials involved, etc.

(If more space is needed to fill out a block of information, use additional sheets and attach to form.)



- C. **Project Description.** Describe all aspects of the operation: how clearing will be accomplished, topsoil stockpiled, waste rock placed, tailing disposed of, etc. Calculate production rates and total volumes of waste rock and ore. Include justification and calculations for settling pond capacities and sizing of runoff diversion channels.

1. For first 12 months:

THERE IS APPROX LESS THAN 1FT OVERBURDEN TO BE STOCKPILED FOR RECLAMATION. THERE SHOULD BE NO WASTE OR TAILINGS. INITIALLY THERE SHOULD BE VERY LITTLE STOCKPILING AS IT SHOULD BE REMOVED AS IT IS MINED. - THERE WILL BE NO EXPLOSIVES STORED ON SITE AS THE CONTRACT COMPANY WILL COMPLETE OPERATIONS IN ONE DAY AND REMOVE EQUIPMENT AND EXPLOSIVES THAT SAME DAY. OUR OPERATION SHOULD CONSIST OF FRONT LOADERS, D-B, TRUCKS WHICH SHOULD BE REMOVED OFF SITE EACH DAY. SOMETIME IN FUTURE A CRUSHER AND SEPERATOR MAY BE INSTALLED BUT EVEN THEN VERY LITTLE STOCKPILING SHOULD OCCUR. WE EXPECT TO MINE A 5 ACRE TRAC AND SLOPE WALLS IN APPROVED MANNER REMOVING APPROX 100,000 TONS PER YEAR - SACKES WOULD TAKE 5 YEARS.

2. For total life of project:

EACH SACKE MINING SITE CONTAINS APPROX 500,000 TONS WE EXPECT TO REMOVE APPROX 100,000 TONS PER YEAR SO WE DO NOT EXPECT TO CHANGE THE APPEARANCE OF THE EXISTING TERRAIN APPRECEIABLY IF WE WERE BE A CONTINUOUS OPERATION FOR 20 YEARS. THIS IS A POZZALON, SILICA, FELDSPAR OPERATION WITH LIMITED MARKET BECAUSE OF TRANSPORTATION COSTS.

(If more space is needed to fill out a block of information, use additional sheets and attach to form.)



- D. Describe the Equipment and Vehicles you propose to use in your operation (Examples: drill, dozer, wash plant, mill, etc.). Include: sizes, capacity, frequency of use, etc.

CONTRACT DRILLING AND BLASTING - APPROX 10 DAYS PER YEAR  
EACH DAY EQUIPMENT AND EXPLOSIVES REMOVED.

FRONT END LOADERS, D-B, TRUCKS, ALL EXPECTED TO BE  
REMOVED EACH DAY. SOMETIME IN FUTURE A CRUSHER  
ETC MAY BE PLACED ON PROPERTY - POSSIBILITY OF  
A SMALL MAINTENANCE SHACK - MAY A GENERATOR

- E. Structures. Describe and include justification for the structures or facilities planned for the operation. Include such things as storage sheds, mill buildings, thickener tanks, fuel storage, powder magazines, pipe lines, water diversions, trailers, sanitation facilities, etc. Include justification and calculations for sizing of tanks, pipelines and water diversions. The fuel storage facilities should include containment structures that will hold the volume of the largest storage tank in case of a tank failure or leak. Show the locations on the sketch map.

POSSIBILITY OF SMALL MAINTENANCE WITH PERHAPS A  
GENERATOR

#### V. ENVIRONMENTAL PROTECTION MEASURES (SEE 36 CFR 228.8)

- A. Air Quality. Describe measures to be taken to minimize impacts on air quality such as obtaining a burning permit for slash disposal or dust abatement on roads.

IF IT APPEARS NECESSARY DUST CATCHING EQUIPMENT  
WILL BE INSTALLED.

(If more space is needed to fill out a block of information, use additional sheets and attach to form.)



B. **Water Quality.** State how applicable state and federal water quality standards will be met. Describe what measures or management practices will be used to minimize water quality impacts and meet applicable standards.

1. If water is to be used in the operation (processing ore, washing ore, solution make-up, etc.) state how the water will be stored, treated and disposed of. If ponds of any type are proposed, such as for storage or settling, state how they will be designed and built. Provide storage capacities and water balance calculations. State how ponds will be maintained on an annual basis.
2. Describe methods to control runoff and erosion to prevent entry into surface water for all disturbed areas, including waste and tailings dumps.
3. Describe proposed surface water and groundwater quality monitoring, if required, to demonstrate compliance with federal or state water quality standards.
4. Describe what measures will be used to minimize potential water quality impacts during winter closure, if applicable.
5. If land application is proposed for wastewater disposal, the location and operation of the land application system should be described.

NOT WATER PROBLEMS WILL BE ENCOUNTERED AS WE  
WILL NOT DISTURB ANY EXISTING WATER OR DRAINAGE

C. **Solid Wastes.** State how any tailing, dumpage, or other waste produced by operations will be disposed of or treated so as to minimize adverse impacts. Include a statement that all unburnable garbage and refuse will be hauled off-Forest to a sanitary landfill.

THERE SHOULD BE NO TAILINGS - DUMPAGE - IF ANY GARBAGE  
APPEARS TO BE PART OF OPERATION IT WILL BE HAULED  
TO SANITARY LANDFILL.

D. **Scenic Values.** State how scenic values will be protected. Examples are screening, slash disposal, timely reclamation, etc.

NO ~~SCENIC~~ SCENIC VALUES WILL BE IMPACTED AS NOT MUCH  
CHANGE IN LANDSCAPE WILL OCCUR. TIMELY RECLAMATION  
MEASURES WILL BE DONE AS NECESSARY OR APPEARS  
TO BE IN GOOD TASTE AND STANDARDS

(If more space is needed to fill out a block of information, use additional sheets and attach to form.)



- E. **Fish and Wildlife.** All practicable measures to maintain and protect fisheries and wildlife habitat affected by the operations must be taken, and should be defined. Most of those measures involve avoidance of critical habitat such as along streams and bogs when planning roads, dumps, etc. Opportunities during reclamation to prevent erosion or plant browse or forage species should be described.

WE ARE NOT NEAR ANY SUCH HABITAT AND OUR  
OPERATION WILL NOT AND CANNOT EFFECT EITHER

- F. **Cultural Resources.** Describe procedures for protection of historic and archeological values. The Forest Service is responsible for insuring that the area to be covered by the operating plan is inventoried prior to plan approval to determine the presence of significant cultural resources and will specify protective and/or mitigation measures to be taken by the operator. If previously undiscovered cultural resources (historic or prehistoric objects, artifacts, or sites) are exposed as a result of operations, the operator shall not proceed until he is notified by the District Ranger that he has complied with provisions for mitigating unforeseen impacts as required by 36 CFR 228.4(e) and 36 CFR 800.

IF SUCH HISTORIC OR ARCHEOLOGICAL VALUES ARE FOUND  
WE WILL NOT DISTURB BUT WILL MINE ELSEWHERE

- G. List all hazardous substances (by name and quantity required) which you intend to use or generate during the proposed operation. Operations USING or GENERATING HAZARDOUS SUBSTANCES must attach copies of other Federal and State agency permits, including all stipulations and conditions pertaining to the permit.

CONTRACT COMPANY SANDEX WILL HANDLE AND ALL  
HAZARDOUS SUBSTANCES - THEY ARE WELL ~~AND~~ ~~THE~~  
KNOWN.

- H. With regard to hazardous substances, discuss handling, storage, security (fencing), identification (signing), or other special operations requirements necessary to conduct the proposed operation.

ABOVE

(If more space is needed to fill out a block of information, use additional sheets and attach to form.)



- I. **Close-out Reclamation.** This section should describe the removal of structures and facilities, and the reclamation of the access road. It should specify that roads no longer needed: (1) be closed, (2) bridges and culverts be removed, (3) cross drains, dips, or water bars be constructed, and (4) the road surface be shaped to as near a natural contour as practicable and be stabilized. Show the expected date for completion of all reclamation.

NOT MUCH AREA WILL BE CHANGED AND AFTER MANY YEARS OPERATION SHOULD NOT CHANGE IN APPEARANCE, HOWEVER, WE WILL LEAVE AREA IN BETTER CONDITION THAN WHEN WE BEGIN OPERATION

## VI. FOREST SERVICE EVALUATION OF PLAN OF OPERATIONS

- A. Recommended Changes/Modifications for Plan of Operations: \_\_\_\_\_

- B. **Bond** - As a further guarantee of faithful performance with the reclamation requirements agreed upon in the plan of operations, the operator delivers herewith and agrees to maintain a surety bond, cash, bond, irrevocable letters of credit in the sum of \_\_\_\_\_ (\$ \_\_\_\_\_).

## ACKNOWLEDGEMENTS

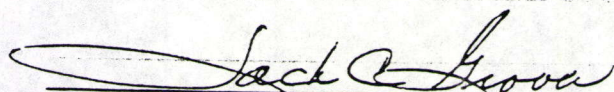
- A. It is understood that should the nature of the operation change a modified or supplemental plan of operations may be required.
- B. It is understood that approval of this plan of operations does not constitute: (1) Certification of ownership to any person named herein; and (2) Recognition of the validity of any mining claim named herein.

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- C. It is understood that a bond equivalent to the actual cost of performing the agreed upon mitigation and reclamation measures may be required before this plan can be approved.
- D. It is understood that approval of this plan does not relieve me of my responsibility to comply with any other applicable State or Federal laws, rules or regulations.
- E. It is understood that any information provided with this plan that is marked confidential will be treated by the agency in accordance with that agency's laws, rules and regulations.

I/We have reviewed and agree to comply with all conditions in this plan of operations, including the recommended changes and reclamation requirements. I/We understand that the bond will not be released until the Forest Officer in charge gives written approval of the reclamation work.

  
Operator (or Authorized Official)

29 JUNE 1992  
(Date)

OPERATING PLAN APPROVAL:

\_\_\_\_\_  
(Name)

\_\_\_\_\_  
(Title)

\_\_\_\_\_  
(Authorized Officer)

\_\_\_\_\_  
(Date)

Public reporting burden for this collection of information is estimated to average 2 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Department of Agriculture, Clearance Officer, OIRM, Room 404-W, Washington, D.C. 20250; and to the Office of Management and Budget, Paperwork Reduction Project (OMB #0596-0022), Washington, D.C. 20503.





taceous (?) Paleocene and  
Eocene

Eocene or Oligocene

Miocene(?)

Upper Eocene or lower Oligocene



